

## Certifications

**WBENC:** 237019

**HUB:** 1752439743100-86536

**DBE:** VN 20657

**NCTRCA** WFWB38444Y0909

## NELAP Certifications

**Lubbock:** T104704219-08-TX  
LELAP-02003  
Kansas E-10317

**El Paso:** T104704221-08-TX  
LELAP-02002

**Midland:** T104704392-08-TX

## Analytical and Quality Control Report

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Report Date: October 7, 2008

Work Order: 8080828



Project Name: HELSTF GROUNDWATER  
Project Number: 65

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
170067	HLSF-0085-HMW-014-0808	water	2008-08-06	14:15	2008-08-06
170168	HLSF-0085-HMW-055-0808	water	2008-08-08	13:16	2008-08-08
170170	HLSF-0085-HMW-010-0808	water	2008-08-07	10:20	2008-08-07
170455	HLSF-0085-HMW-054-0808	water	2008-08-11	10:08	2008-08-11
170457	HLSF-0085-D RW-008-0808	water	2008-08-11	12:55	2008-08-11
170843	HLSF-0085-HMW-043-0808	water	2008-08-13	09:45	2008-08-13
170986	HLSF-0085-DRW-017-0808	water	2008-08-14	10:30	2008-08-14
171111	HLSF-0085-HMW-062-0808	water	2008-08-18	14:00	2008-08-18
171300	HLSF-0085-HMW-008-0808	water	2008-08-19	10:48	2008-08-19
171303	HLSF-0085-HMW-034-0808	water	2008-08-19	12:46	2008-08-19
171731	HLSF-0085-HMW-033-0808	water	2008-08-21	09:42	2008-08-21
171733	HLSF-0085-HMW-059-0808	water	2008-08-21	11:45	2008-08-21
171735	HLSF-0085-DRW-016-0808	water	2008-08-22	10:25	2008-08-22
172137	HLSF-0085-DRW-114-0808	water	2008-08-27	13:35	2008-08-27
172139	HLSF-0085-DRW-014-0808	water	2008-08-27	13:35	2008-08-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
172467	HLSF-0085-HMW-053-0808	water	2008-08-28	12:20	2008-08-28
172638	HLSF-0085-HMW-061-0908	water	2008-09-02	10:25	2008-09-02
172640	HLSF-0085-HMW-060-0908	water	2008-09-02	13:15	2008-09-02
172795	HLSF-0085-HMW-063-0908	water	2008-09-03	12:50	2008-09-03
172797	HLSF-0085-HMW-058-0908	water	2008-09-03	10:10	2008-09-05
172908	HLSF-0085-HMW-057-0908	water	2008-09-04	11:15	2008-09-04
172910	HLSF-0085-DRW-002-0908	water	2008-09-04	13:41	2008-09-04
173041	HLSF-0085-RB-001-0908	water	2008-09-08	15:30	2008-09-09
173043	HLSF-0085-HCF-003-0908	water	2008-09-08	12:00	2008-09-08
173045	HLSF-0085-HCF-103-0908	water	2008-09-08	12:00	2008-09-08

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 77 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.




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Dr. Blair Leftwich, Director

#### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUND-  
WATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUND-  
WATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWA-  
TER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER,  
HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HEL-  
STF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER and HEL-  
STF GROUNDWATER were received by TraceAnalysis, Inc. on 2008-08-06, 2008-08-08, 2008-08-07, 2008-08-11, 2008-08-11,  
2008-08-13, 2008-08-14, 2008-08-18, 2008-08-19, 2008-08-19, 2008-08-21, 2008-08-21, 2008-08-22, 2008-08-27, 2008-08-27,  
2008-08-28, 2008-09-02, 2008-09-02, 2008-09-03, 2008-09-05, 2008-09-04, 2008-09-04, 2008-09-09, 2008-09-08 and 2008-09-08  
and assigned to work orders 8080828, 8081109, 8081110, 8081318, 8081319, 8081533, 8081820, 8082006, 8082103, 8082105,  
8082517, 8082518, 8082519, 8082824, 8082825, 8090219, 8090411, 8090412, 8090519, 8090520, 8090810, 8090811, 8091019,  
8091020 and 8091021 respectively. Samples for work order 8080828 were received intact without headspace and at a tem-  
perature of 4.0 deg. C.Samples for work order 8081109 were received intact without headspace and at a temperature of 4.0  
deg. C.Samples for work order 8081110 were received intact without headspace and at a temperature of 4.0 deg. C.Samples  
for work order 8081318 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order  
8081319 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081533 were  
received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081820 were received intact  
without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082006 were received intact without headspace  
and at a temperature of 4.0 deg. C.Samples for work order 8082103 were received intact without headspace and at a tem-  
perature of 4.0 deg. C.Samples for work order 8082105 were received intact without headspace and at a temperature of 4.0  
deg. C.Samples for work order 8082517 were received intact without headspace and at a temperature of 4.0 deg. C.Samples  
for work order 8082518 were received intact without headspace and at a temperature of 4.0 deg C.Samples for work order  
8082519 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082824 were  
received intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8082825 were received intact  
without headspace and at a temperature of 4.0 dec C.Samples for work order 8090219 were received intact without headspace  
and at a temperature of 4.0 deg. C.Samples for work order 8090411 were received intact without headspace and at a temper-  
ature of 4.0 deg. C.Samples for work order 8090412 were received intact without headspace and at a temperature of 4.0 deg.  
C.Samples for work order 8090519 were received intact without headspace and at a temperature of 4.0 dec C.Samples for work  
order 8090520 were received intact without headspace and at a temperature of 4.0 deg.C.Samples for work order 8090810  
were received intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8090811 were received  
intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8091019 were received intact without  
headspace and at a temperature of 4.0 deg. C.Samples for work order 8091020 were received intact without headspace and  
at a temperature of 4.0 deg. C.Samples for work order 8091021 were received intact without headspace and at a temperature  
of 4.0 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Chloride (IC)	E 300.0
Fluoride (IC)	E 300.0
SO4 (IC)	E 300.0

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The

MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work orders 8080828, 8081109, 8081110, 8081318, 8081319, 8081533, 8081820, 8082006, 8082103, 8082105, 8082517, 8082518, 8082519, 8082824, 8082825, 8090219, 8090411, 8090412, 8090519, 8090520, 8090810, 8090811, 8091019, 8091020 and 8091021 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

### Sample: 170067 - HLSF-0085-HMW-014-0808

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2008-08-08	Analyzed By:	MD
QC Batch:	51559	Sample Preparation:	2008-08-08	Prepared By:	JR
Prep Batch:	44210				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8750	mg/L	500	2.00

### Sample: 170067 - HLSF-0085-HMW-014-0808

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Fluoride (IC)	Date Analyzed:	2008-08-08	Analyzed By:	MD
QC Batch:	51559	Sample Preparation:	2008-08-08	Prepared By:	JR
Prep Batch:	44210				

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<10.0	mg/L	50	0.200

### Sample: 170067 - HLSF-0085-HMW-014-0808

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	SO4 (IC)	Date Analyzed:	2008-08-08	Analyzed By:	MD
QC Batch:	51559	Sample Preparation:	2008-08-08	Prepared By:	JR
Prep Batch:	44210				

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		14500	mg/L	1000	1.00

### Sample: 170168 - HLSF-0085-HMW-055-0808

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2008-08-13	Analyzed By:	JR
QC Batch:	51593	Sample Preparation:	2008-08-13	Prepared By:	JR
Prep Batch:	44242				

*continued . . .*

*sample 170168 continued ...*

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>1960</b>	mg/L	100	2.00

**Sample: 170168 - HLSF-0085-HMW-055-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
QC Batch: 51560      Date Analyzed: 2008-08-19      Analyzed By: JR  
Prep Batch: 44211      Sample Preparation: 2008-08-08      Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<b>2.34</b>	mg/L	1	0.200

**Sample: 170168 - HLSF-0085-HMW-055-0808**

Laboratory: El Paso  
Analysis: SO4 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
QC Batch: 51593      Date Analyzed: 2008-08-13      Analyzed By: JR  
Prep Batch: 44242      Sample Preparation: 2008-08-13      Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<b>7540</b>	mg/L	500	1.00

**Sample: 170170 - HLSF-0085-HMW-010-0808**

Laboratory: El Paso  
Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
QC Batch: 51593      Date Analyzed: 2008-08-13      Analyzed By: JR  
Prep Batch: 44242      Sample Preparation: 2008-08-13      Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>2910</b>	mg/L	500	2.00

**Sample: 170170 - HLSF-0085-HMW-010-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51560 Date Analyzed: 2008-08-19 Analyzed By: JR  
Prep Batch: 44211 Sample Preparation: 2008-08-08 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		<b>3.05</b>	mg/L	5	0.200

**Sample: 170170 - HLSF-0085-HMW-010-0808**

Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51593 Date Analyzed: 2008-08-13 Analyzed By: JR  
Prep Batch: 44242 Sample Preparation: 2008-08-13 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		<b>9000</b>	mg/L	500	1.00

**Sample: 170455 - HLSF-0085-HMW-054-0808**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44311 Sample Preparation: 2008-08-14 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		<b>1770</b>	mg/L	100	2.00

**Sample: 170455 - HLSF-0085-HMW-054-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44311 Sample Preparation: 2008-08-14 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		<b>2.02</b>	mg/L	5	0.200

**Sample: 170455 - HLSF-0085-HMW-054-0808**

Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44311 Sample Preparation: 2008-08-14 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<b>6920</b>	mg/L	500	1.00

**Sample: 170457 - HLSF-0085-D RW-008-0808**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44312 Sample Preparation: 2008-08-14 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>1130</b>	mg/L	100	2.00

**Sample: 170457 - HLSF-0085-D RW-008-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44311 Sample Preparation: 2008-08-14 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<b>3.67</b>	mg/L	5	0.200

**Sample: 170457 - HLSF-0085-D RW-008-0808**

Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44312 Sample Preparation: 2008-08-14 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<b>5920</b>	mg/L	500	1.00



**Sample: 170843 - HLSF-0085-HMW-043-0808**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	51680	Date Analyzed:	2008-08-14
Prep Batch:	44312	Sample Preparation:	2008-08-14
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		424	mg/L	50	2.00

**Sample: 170843 - HLSF-0085-HMW-043-0808**

Laboratory:	El Paso		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	51680	Date Analyzed:	2008-08-14
Prep Batch:	44312	Sample Preparation:	2008-08-14
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		4.35	mg/L	5	0.200

**Sample: 170843 - HLSF-0085-HMW-043-0808**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	51680	Date Analyzed:	2008-08-14
Prep Batch:	44312	Sample Preparation:	2008-08-14
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		4100	mg/L	100	1.00

**Sample: 170986 - HLSF-0085-DRW-017-0808**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	51682	Date Analyzed:	2008-08-18
Prep Batch:	44314	Sample Preparation:	2008-08-18
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1710	mg/L	100	2.00

**Sample: 170986 - HLSF-0085-DRW-017-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 Sample Preparation: 2008-08-18 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		<b>2.02</b>	mg/L	5	0.200

**Sample: 170986 - HLSF-0085-DRW-017-0808**

Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 Sample Preparation: 2008-08-18 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		<b>6370</b>	mg/L	500	1.00

**Sample: 171111 - HLSF-0085-HMW-062-0808**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR  
Prep Batch: 44424 Sample Preparation: 2008-08-20 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		<b>1810</b>	mg/L	100	2.00

**Sample: 171111 - HLSF-0085-HMW-062-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR  
Prep Batch: 44424 Sample Preparation: 2008-08-20 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		<b>1.92</b>	mg/L	5	0.200

**Sample: 171111 - HLSF-0085-HMW-062-0808**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	51798	Date Analyzed:	2008-08-20
Prep Batch:	44424	Sample Preparation:	2008-08-20
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		5770	mg/L	500	1.00

**Sample: 171300 - HLSF-0085-HMW-008-0808**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	51799	Date Analyzed:	2008-08-20
Prep Batch:	44425	Sample Preparation:	2008-08-20
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1200	mg/L	100	2.00

**Sample: 171300 - HLSF-0085-HMW-008-0808**

Laboratory:	El Paso		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	51798	Date Analyzed:	2008-08-20
Prep Batch:	44424	Sample Preparation:	2008-08-20
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		2.37	mg/L	5	0.200

**Sample: 171300 - HLSF-0085-HMW-008-0808**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	51799	Date Analyzed:	2008-08-20
Prep Batch:	44425	Sample Preparation:	2008-08-20
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		7240	mg/L	500	1.00

**Sample: 171303 - HLSF-0085-HMW-034-0808**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	51799	Date Analyzed:	2008-08-20
Prep Batch:	44425	Sample Preparation:	2008-08-20
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		803	mg/L	100	2.00

**Sample: 171303 - HLSF-0085-HMW-034-0808**

Laboratory:	El Paso		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	51798	Date Analyzed:	2008-08-20
Prep Batch:	44424	Sample Preparation:	2008-08-20
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		1.29	mg/L	5	0.200

**Sample: 171303 - HLSF-0085-HMW-034-0808**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	51799	Date Analyzed:	2008-08-20
Prep Batch:	44425	Sample Preparation:	2008-08-20
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		6450	mg/L	500	1.00

**Sample: 171731 - HLSF-0085-HMW-033-0808**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	51800	Date Analyzed:	2008-08-22
Prep Batch:	44426	Sample Preparation:	2008-08-22
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5910	mg/L	500	2.00

**Sample: 171731 - HLSF-0085-HMW-033-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 Sample Preparation: 2008-08-22 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<b>4.01</b>	mg/L	10	0.200

**Sample: 171731 - HLSF-0085-HMW-033-0808**

Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 Sample Preparation: 2008-08-22 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<b>13100</b>	mg/L	500	1.00

**Sample: 171733 - HLSF-0085-HMW-059-0808**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 Sample Preparation: 2008-08-22 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>867</b>	mg/L	100	2.00

**Sample: 171733 - HLSF-0085-HMW-059-0808**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 Sample Preparation: 2008-08-22 Prepared By: JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<b>2.29</b>	mg/L	1	0.200

**Sample: 171733 - HLSF-0085-HMW-059-0808**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	51800	Date Analyzed:	2008-08-22
Prep Batch:	44426	Sample Preparation:	2008-08-22
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		6150	mg/L	500	1.00

**Sample: 171735 - HLSF-0085-DRW-016-0808**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	51801	Date Analyzed:	2008-08-22
Prep Batch:	44427	Sample Preparation:	2008-08-22
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2750	mg/L	500	2.00

**Sample: 171735 - HLSF-0085-DRW-016-0808**

Laboratory:	El Paso		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	51801	Date Analyzed:	2008-08-22
Prep Batch:	44427	Sample Preparation:	2008-08-22
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		2.73	mg/L	10	0.200

**Sample: 171735 - HLSF-0085-DRW-016-0808**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	51801	Date Analyzed:	2008-08-22
Prep Batch:	44427	Sample Preparation:	2008-08-22
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		6560	mg/L	500	1.00

**Sample: 172137 - HLSF-0085-DRW-114-0808**

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52175	Date Analyzed:	2008-09-09	Analyzed By:	RD
Prep Batch:	44734	Sample Preparation:	2008-09-08	Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>5770</b>	mg/L	500	3.00

**Sample: 172137 - HLSF-0085-DRW-114-0808**

Laboratory:	Lubbock				
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52175	Date Analyzed:	2008-09-09	Analyzed By:	RD
Prep Batch:	44734	Sample Preparation:	2008-09-08	Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<b>33.3</b>	mg/L	5	0.200

**Sample: 172137 - HLSF-0085-DRW-114-0808**

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52175	Date Analyzed:	2008-09-09	Analyzed By:	RD
Prep Batch:	44734	Sample Preparation:	2008-09-08	Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<b>11000</b>	mg/L	500	1.00

**Sample: 172139 - HLSF-0085-DRW-014-0808**

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52175	Date Analyzed:	2008-09-09	Analyzed By:	RD
Prep Batch:	44734	Sample Preparation:	2008-09-08	Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>6750</b>	mg/L	500	3.00

**Sample: 172139 - HLSF-0085-DRW-014-0808**

Laboratory: Lubbock  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD  
Prep Batch: 44734 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		28.4	mg/L	5	0.200

**Sample: 172139 - HLSF-0085-DRW-014-0808**

Laboratory: Lubbock  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD  
Prep Batch: 44734 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		12300	mg/L	500	1.00

**Sample: 172467 - HLSF-0085-HMW-053-0808**

Laboratory: Lubbock  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		20200	mg/L	1000	3.00

**Sample: 172467 - HLSF-0085-HMW-053-0808**

Laboratory: Lubbock  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		49.4	mg/L	5	0.200



**Sample: 172467 - HLSF-0085-HMW-053-0808**

Laboratory: Lubbock  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		<b>33300</b>	mg/L	1000	1.00

**Sample: 172638 - HLSF-0085-HMW-061-0908**

Laboratory: Lubbock  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD  
Prep Batch: 44734 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		<b>4920</b>	mg/L	500	3.00

**Sample: 172638 - HLSF-0085-HMW-061-0908**

Laboratory: Lubbock  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD  
Prep Batch: 44734 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		<b>25.1</b>	mg/L	5	0.200

**Sample: 172638 - HLSF-0085-HMW-061-0908**

Laboratory: Lubbock  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD  
Prep Batch: 44734 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		<b>9810</b>	mg/L	500	1.00

**Sample: 172640 - HLSF-0085-HMW-060-0908**

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52175	Date Analyzed:	2008-09-09	Analyzed By:	RD
Prep Batch:	44734	Sample Preparation:	2008-09-08	Prepared By:	RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		2010	mg/L	500	3.00

**Sample: 172640 - HLSF-0085-HMW-060-0908**

Laboratory:	Lubbock				
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52175	Date Analyzed:	2008-09-09	Analyzed By:	RD
Prep Batch:	44734	Sample Preparation:	2008-09-08	Prepared By:	RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		1.88	mg/L	5	0.200

**Sample: 172640 - HLSF-0085-HMW-060-0908**

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52175	Date Analyzed:	2008-09-09	Analyzed By:	RD
Prep Batch:	44734	Sample Preparation:	2008-09-08	Prepared By:	RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		8260	mg/L	500	1.00

**Sample: 172795 - HLSF-0085-HMW-063-0908**

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	52260	Date Analyzed:	2008-09-11	Analyzed By:	RD
Prep Batch:	44805	Sample Preparation:	2008-09-10	Prepared By:	RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		2010	mg/L	100	3.00

**Sample: 172795 - HLSF-0085-HMW-063-0908**

Laboratory:	Lubbock		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	52260	Date Analyzed:	2008-09-11
Prep Batch:	44805	Sample Preparation:	2008-09-10
		Prep Method:	N/A
		Analyzed By:	RD
		Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		15.5	mg/L	5	0.200

**Sample: 172795 - HLSF-0085-HMW-063-0908**

Laboratory:	Lubbock		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	52260	Date Analyzed:	2008-09-11
Prep Batch:	44805	Sample Preparation:	2008-09-10
		Prep Method:	N/A
		Analyzed By:	RD
		Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		11000	mg/L	1000	1.00

**Sample: 172797 - HLSF-0085-HMW-058-0908**

Laboratory:	Lubbock		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	52218	Date Analyzed:	2008-09-10
Prep Batch:	44772	Sample Preparation:	2008-09-08
		Prep Method:	N/A
		Analyzed By:	RD
		Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3280	mg/L	500	3.00

**Sample: 172797 - HLSF-0085-HMW-058-0908**

Laboratory:	Lubbock		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	52218	Date Analyzed:	2008-09-10
Prep Batch:	44772	Sample Preparation:	2008-09-08
		Prep Method:	N/A
		Analyzed By:	RD
		Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		22.9	mg/L	5	0.200

**Sample: 172797 - HLSF-0085-HMW-058-0908**

Laboratory: Lubbock  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		<b>14100</b>	mg/L	500	1.00

**Sample: 172908 - HLSF-0085-HMW-057-0908**

Laboratory: Lubbock  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		<b>3040</b>	mg/L	500	3.00

**Sample: 172908 - HLSF-0085-HMW-057-0908**

Laboratory: Lubbock  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		<b>24.5</b>	mg/L	5	0.200

**Sample: 172908 - HLSF-0085-HMW-057-0908**

Laboratory: Lubbock  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 Sample Preparation: 2008-09-08 Prepared By: RD

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		<b>12800</b>	mg/L	500	1.00

**Sample: 172910 - HLSF-0085-DRW-002-0908**

Laboratory:	Lubbock		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	52218	Date Analyzed:	2008-09-10
Prep Batch:	44772	Sample Preparation:	2008-09-08
		Prep Method:	N/A
		Analyzed By:	RD
		Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		569	mg/L	100	3.00

**Sample: 172910 - HLSF-0085-DRW-002-0908**

Laboratory:	Lubbock		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	52218	Date Analyzed:	2008-09-10
Prep Batch:	44772	Sample Preparation:	2008-09-08
		Prep Method:	N/A
		Analyzed By:	RD
		Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		12.5	mg/L	5	0.200

**Sample: 172910 - HLSF-0085-DRW-002-0908**

Laboratory:	Lubbock		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	52218	Date Analyzed:	2008-09-10
Prep Batch:	44772	Sample Preparation:	2008-09-08
		Prep Method:	N/A
		Analyzed By:	RD
		Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		5000	mg/L	100	1.00

**Sample: 173041 - HLSF-0085-RB-001-0908**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	52326	Date Analyzed:	2008-09-10
Prep Batch:	44858	Sample Preparation:	2008-09-10
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<2.00	mg/L	1	2.00

**Sample: 173041 - HLSF-0085-RB-001-0908**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52326 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44858 Sample Preparation: 2008-09-10 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		<0.200	mg/L	1	0.200

**Sample: 173041 - HLSF-0085-RB-001-0908**

Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52326 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44858 Sample Preparation: 2008-09-10 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Sulfate		1.80	mg/L	1	1.00

**Sample: 173043 - HLSF-0085-HCF-003-0908**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44857 Sample Preparation: 2008-09-10 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		109	mg/L	10	2.00

**Sample: 173043 - HLSF-0085-HCF-003-0908**

Laboratory: El Paso  
Analysis: Fluoride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44857 Sample Preparation: 2008-09-10 Prepared By: JR

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Fluoride		0.790	mg/L	1	0.200

**Sample: 173043 - HLSF-0085-HCF-003-0908**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	52325	Date Analyzed:	2008-09-10
Prep Batch:	44857	Sample Preparation:	2008-09-10
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<b>1360</b>	mg/L	100	1.00

**Sample: 173045 - HLSF-0085-HCF-103-0908**

Laboratory:	El Paso		
Analysis:	Chloride (IC)	Analytical Method:	E 300.0
QC Batch:	52325	Date Analyzed:	2008-09-10
Prep Batch:	44857	Sample Preparation:	2008-09-10
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>119</b>	mg/L	10	2.00

**Sample: 173045 - HLSF-0085-HCF-103-0908**

Laboratory:	El Paso		
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0
QC Batch:	52325	Date Analyzed:	2008-09-10
Prep Batch:	44857	Sample Preparation:	2008-09-10
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<b>0.810</b>	mg/L	1	0.200

**Sample: 173045 - HLSF-0085-HCF-103-0908**

Laboratory:	El Paso		
Analysis:	SO4 (IC)	Analytical Method:	E 300.0
QC Batch:	52325	Date Analyzed:	2008-09-10
Prep Batch:	44857	Sample Preparation:	2008-09-10
		Prep Method:	N/A
		Analyzed By:	JR
		Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Sulfate		<b>1500</b>	mg/L	100	1.00

**Method Blank (1)**      QC Batch: 51559

QC Batch:    51559                      Date Analyzed:    2008-08-08                      Analyzed By:    MD  
Prep Batch:   44210                      QC Preparation:    2008-08-08                      Prepared By:    MD

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51559

QC Batch:    51559                      Date Analyzed:    2008-08-08                      Analyzed By:    MD  
Prep Batch:   44210                      QC Preparation:    2008-08-08                      Prepared By:    MD

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 51559

QC Batch:    51559                      Date Analyzed:    2008-08-08                      Analyzed By:    MD  
Prep Batch:   44210                      QC Preparation:    2008-08-08                      Prepared By:    MD

Parameter	Flag	MDL	Units	RL
		Result		
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51560

QC Batch:    51560                      Date Analyzed:    2008-08-19                      Analyzed By:    JR  
Prep Batch:   44211                      QC Preparation:    2008-08-08                      Prepared By:    MD

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2



**Method Blank (1)**      QC Batch: 51593

QC Batch:    51593                      Date Analyzed:    2008-08-13                      Analyzed By:    JR  
Prep Batch:   44242                      QC Preparation:    2008-08-13                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51593

QC Batch:    51593                      Date Analyzed:    2008-08-13                      Analyzed By:    JR  
Prep Batch:   44242                      QC Preparation:    2008-08-13                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51679

QC Batch:    51679                      Date Analyzed:    2008-08-14                      Analyzed By:    JR  
Prep Batch:   44311                      QC Preparation:    2008-08-14                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51679

QC Batch:    51679                      Date Analyzed:    2008-08-14                      Analyzed By:    JR  
Prep Batch:   44311                      QC Preparation:    2008-08-14                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 51679

QC Batch:    51679                      Date Analyzed:    2008-08-14                      Analyzed By:    JR  
Prep Batch:   44311                      QC Preparation:    2008-08-14                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51680

QC Batch:    51680                      Date Analyzed:    2008-08-14                      Analyzed By:    JR  
Prep Batch:   44312                      QC Preparation:    2008-08-14                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51680

QC Batch:    51680                      Date Analyzed:    2008-08-14                      Analyzed By:    JR  
Prep Batch:   44312                      QC Preparation:    2008-08-14                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 51680

QC Batch:    51680                      Date Analyzed:    2008-08-14                      Analyzed By:    JR  
Prep Batch:   44312                      QC Preparation:    2008-08-14                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51682

QC Batch:    51682                      Date Analyzed:    2008-08-18                      Analyzed By:    JR  
Prep Batch:   44314                      QC Preparation:    2008-08-18                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51682

QC Batch:    51682                      Date Analyzed:    2008-08-18                      Analyzed By:    JR  
Prep Batch:   44314                      QC Preparation:    2008-08-18                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 51682

QC Batch:    51682                      Date Analyzed:    2008-08-18                      Analyzed By:    JR  
Prep Batch:   44314                      QC Preparation:    2008-08-18                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51798

QC Batch:    51798                      Date Analyzed:    2008-08-20                      Analyzed By:    JR  
Prep Batch:   44424                      QC Preparation:    2008-08-20                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51798

QC Batch:    51798                      Date Analyzed:    2008-08-20                      Analyzed By:    JR  
Prep Batch:   44424                      QC Preparation:    2008-08-20                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 51798

QC Batch:    51798                      Date Analyzed:    2008-08-20                      Analyzed By:    JR  
Prep Batch:   44424                      QC Preparation:    2008-08-20                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51799

QC Batch:    51799                      Date Analyzed:    2008-08-20                      Analyzed By:    JR  
Prep Batch:   44425                      QC Preparation:    2008-08-20                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51799

QC Batch:    51799                      Date Analyzed:    2008-08-20                      Analyzed By:    JR  
Prep Batch:   44425                      QC Preparation:    2008-08-20                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51800

QC Batch:    51800                      Date Analyzed:    2008-08-22                      Analyzed By:    JR  
Prep Batch:   44426                      QC Preparation:    2008-08-22                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51800

QC Batch:    51800                      Date Analyzed:    2008-08-22                      Analyzed By:    JR  
Prep Batch:   44426                      QC Preparation:    2008-08-22                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 51800

QC Batch:    51800                      Date Analyzed:    2008-08-22                      Analyzed By:    JR  
Prep Batch:   44426                      QC Preparation:    2008-08-22                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 51801

QC Batch:    51801                      Date Analyzed:    2008-08-22                      Analyzed By:    JR  
Prep Batch:   44427                      QC Preparation:    2008-08-22                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 51801

QC Batch:    51801                      Date Analyzed:    2008-08-22                      Analyzed By:    JR  
Prep Batch:   44427                      QC Preparation:    2008-08-22                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 51801

QC Batch:    51801                      Date Analyzed:    2008-08-22                      Analyzed By:    JR  
Prep Batch:   44427                      QC Preparation:    2008-08-22                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 52175

QC Batch:    52175                      Date Analyzed:    2008-09-09                      Analyzed By:    RD  
Prep Batch:   44734                      QC Preparation:    2008-09-08                      Prepared By:    RD

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<1.74	mg/L	3

**Method Blank (1)**      QC Batch: 52175

QC Batch:    52175                      Date Analyzed:    2008-09-09                      Analyzed By:    RD  
Prep Batch:   44734                      QC Preparation:    2008-09-08                      Prepared By:    RD

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0889	mg/L	0.2

**Method Blank (1)**      QC Batch: 52175

QC Batch:    52175                      Date Analyzed:    2008-09-09                      Analyzed By:    RD  
Prep Batch:   44734                      QC Preparation:    2008-09-08                      Prepared By:    RD

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.344	mg/L	1

**Method Blank (1)**      QC Batch: 52218

QC Batch:    52218                      Date Analyzed:    2008-09-10                      Analyzed By:    RD  
Prep Batch:   44772                      QC Preparation:    2008-09-08                      Prepared By:    RD

Parameter	Flag	MDL Result	Units	RL
Chloride		<1.74	mg/L	3

**Method Blank (1)**      QC Batch: 52218

QC Batch:    52218                      Date Analyzed:    2008-09-10                      Analyzed By:    RD  
Prep Batch:   44772                      QC Preparation:    2008-09-08                      Prepared By:    RD

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0889	mg/L	0.2

**Method Blank (1)**      QC Batch: 52218

QC Batch:    52218                      Date Analyzed:    2008-09-10                      Analyzed By:    RD  
Prep Batch:   44772                      QC Preparation:    2008-09-08                      Prepared By:    RD

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.344	mg/L	1

**Method Blank (1)**      QC Batch: 52260

QC Batch:    52260                      Date Analyzed:    2008-09-11                      Analyzed By:    RD  
Prep Batch:   44805                      QC Preparation:    2008-09-10                      Prepared By:    RD

Parameter	Flag	MDL Result	Units	RL
Chloride		<1.74	mg/L	3

**Method Blank (1)**      QC Batch: 52260

QC Batch:    52260                      Date Analyzed:    2008-09-11                      Analyzed By:    RD  
Prep Batch:   44805                      QC Preparation:    2008-09-10                      Prepared By:    RD

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0889	mg/L	0.2

**Method Blank (1)**      QC Batch: 52260

QC Batch:    52260                      Date Analyzed:    2008-09-11                      Analyzed By:    RD  
Prep Batch:   44805                      QC Preparation:    2008-09-10                      Prepared By:    RD

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.344	mg/L	1

**Method Blank (1)**      QC Batch: 52325

QC Batch:    52325                      Date Analyzed:    2008-09-10                      Analyzed By:    JR  
Prep Batch:   44857                      QC Preparation:    2008-09-10                      Prepared By:    JR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.640	mg/L	2



**Method Blank (1)**      QC Batch: 52325

QC Batch:    52325                      Date Analyzed:    2008-09-10                      Analyzed By:    JR  
Prep Batch:   44857                      QC Preparation:    2008-09-10                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 52325

QC Batch:    52325                      Date Analyzed:    2008-09-10                      Analyzed By:    JR  
Prep Batch:   44857                      QC Preparation:    2008-09-10                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Sulfate		<0.504	mg/L	1

**Method Blank (1)**      QC Batch: 52326

QC Batch:    52326                      Date Analyzed:    2008-09-10                      Analyzed By:    JR  
Prep Batch:   44858                      QC Preparation:    2008-09-10                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Chloride		<0.640	mg/L	2

**Method Blank (1)**      QC Batch: 52326

QC Batch:    52326                      Date Analyzed:    2008-09-10                      Analyzed By:    JR  
Prep Batch:   44858                      QC Preparation:    2008-09-10                      Prepared By:    JR

Parameter	Flag	MDL	Units	RL
		Result		
Fluoride		<0.0434	mg/L	0.2

**Method Blank (1)**      QC Batch: 52326

QC Batch: 52326      Date Analyzed: 2008-09-10      Analyzed By: JR  
Prep Batch: 44858      QC Preparation: 2008-09-10      Prepared By: JR

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.504	mg/L	1

**Laboratory Control Spike (LCS-1)**

QC Batch: 51559      Date Analyzed: 2008-08-08      Analyzed By: MD  
Prep Batch: 44210      QC Preparation: 2008-08-08      Prepared By: MD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 51559      Date Analyzed: 2008-08-08      Analyzed By: MD  
Prep Batch: 44210      QC Preparation: 2008-08-08      Prepared By: MD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.44	mg/L	1	2.50	<0.0434	98	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.43	mg/L	1	2.50	<0.0434	97	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 51559      Date Analyzed: 2008-08-08      Analyzed By: MD  
Prep Batch: 44210      QC Preparation: 2008-08-08      Prepared By: MD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51560  
Prep Batch: 44211

Date Analyzed: 2008-08-19  
QC Preparation: 2008-08-08

Analyzed By: JR  
Prepared By: MD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.45	mg/L	1	2.50	<0.0434	98	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.45	mg/L	1	2.50	<0.0434	98	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51593  
Prep Batch: 44242

Date Analyzed: 2008-08-13  
QC Preparation: 2008-08-13

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.9	mg/L	1	12.5	<0.640	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.9	mg/L	1	12.5	<0.640	95	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51593  
Prep Batch: 44242

Date Analyzed: 2008-08-13  
QC Preparation: 2008-08-13

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.3	mg/L	1	12.5	<0.504	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.3	mg/L	1	12.5	<0.504	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51679  
Prep Batch: 44311

Date Analyzed: 2008-08-14  
QC Preparation: 2008-08-14

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.2	mg/L	1	12.5	<0.640	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.3	mg/L	1	12.5	<0.640	98	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51679  
Prep Batch: 44311

Date Analyzed: 2008-08-14  
QC Preparation: 2008-08-14

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.46	mg/L	1	2.50	<0.0434	98	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.46	mg/L	1	2.50	<0.0434	98	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51679  
Prep Batch: 44311

Date Analyzed: 2008-08-14  
QC Preparation: 2008-08-14

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.7	mg/L	1	12.5	<0.504	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.7	mg/L	1	12.5	<0.504	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51680  
Prep Batch: 44312

Date Analyzed: 2008-08-14  
QC Preparation: 2008-08-14

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.2	mg/L	1	12.5	<0.640	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.2	mg/L	1	12.5	<0.640	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51680  
Prep Batch: 44312

Date Analyzed: 2008-08-14  
QC Preparation: 2008-08-14

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.45	mg/L	1	2.50	<0.0434	98	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.45	mg/L	1	2.50	<0.0434	98	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51680  
Prep Batch: 44312

Date Analyzed: 2008-08-14  
QC Preparation: 2008-08-14

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.6	mg/L	1	12.5	<0.504	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.6	mg/L	1	12.5	<0.504	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 QC Preparation: 2008-08-18 Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.9	mg/L	1	12.5	<0.640	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.9	mg/L	1	12.5	<0.640	95	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 QC Preparation: 2008-08-18 Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.39	mg/L	1	2.50	<0.0434	96	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.39	mg/L	1	2.50	<0.0434	96	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 QC Preparation: 2008-08-18 Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.3	mg/L	1	12.5	<0.504	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.3	mg/L	1	12.5	<0.504	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51798  
Prep Batch: 44424

Date Analyzed: 2008-08-20  
QC Preparation: 2008-08-20

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.1	mg/L	1	12.5	<0.640	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.1	mg/L	1	12.5	<0.640	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51798  
Prep Batch: 44424

Date Analyzed: 2008-08-20  
QC Preparation: 2008-08-20

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.46	mg/L	1	2.50	<0.0434	98	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.47	mg/L	1	2.50	<0.0434	99	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51798  
Prep Batch: 44424

Date Analyzed: 2008-08-20  
QC Preparation: 2008-08-20

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.5	mg/L	1	12.5	<0.504	100	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51799  
Prep Batch: 44425

Date Analyzed: 2008-08-20  
QC Preparation: 2008-08-20

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51799  
Prep Batch: 44425

Date Analyzed: 2008-08-20  
QC Preparation: 2008-08-20

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51800  
Prep Batch: 44426

Date Analyzed: 2008-08-22  
QC Preparation: 2008-08-22

Analyzed By: JR  
Prepared By: JR



Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.8	mg/L	1	12.5	<0.640	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.9	mg/L	1	12.5	<0.640	95	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 QC Preparation: 2008-08-22 Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.41	mg/L	1	2.50	<0.0434	96	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.42	mg/L	1	2.50	<0.0434	97	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 QC Preparation: 2008-08-22 Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.2	mg/L	1	12.5	<0.504	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.3	mg/L	1	12.5	<0.504	98	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44427 QC Preparation: 2008-08-22 Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51801	Date Analyzed: 2008-08-22	Analyzed By: JR
Prep Batch: 44427	QC Preparation: 2008-08-22	Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.45	mg/L	1	2.50	<0.0434	98	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.46	mg/L	1	2.50	<0.0434	98	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 51801	Date Analyzed: 2008-08-22	Analyzed By: JR
Prep Batch: 44427	QC Preparation: 2008-08-22	Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.5	mg/L	1	12.5	<0.504	100	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52175	Date Analyzed: 2008-09-09	Analyzed By: RD
Prep Batch: 44734	QC Preparation: 2008-09-08	Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.4	mg/L	1	12.5	<1.74	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.3	mg/L	1	12.5	<1.74	98	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52175      Date Analyzed: 2008-09-09      Analyzed By: RD  
Prep Batch: 44734      QC Preparation: 2008-09-08      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.63	mg/L	1	2.50	<0.0889	105	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.50	mg/L	1	2.50	<0.0889	100	90 - 110	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52175      Date Analyzed: 2008-09-09      Analyzed By: RD  
Prep Batch: 44734      QC Preparation: 2008-09-08      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.4	mg/L	1	12.5	<0.344	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	11.4	mg/L	1	12.5	<0.344	91	90 - 110	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52218      Date Analyzed: 2008-09-10      Analyzed By: RD  
Prep Batch: 44772      QC Preparation: 2008-09-08      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.1	mg/L	1	12.5	<1.74	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.1	mg/L	1	12.5	<1.74	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52218      Date Analyzed: 2008-09-10      Analyzed By: RD  
Prep Batch: 44772      QC Preparation: 2008-09-08      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.35	mg/L	1	2.50	<0.0889	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.36	mg/L	1	2.50	<0.0889	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52218      Date Analyzed: 2008-09-10      Analyzed By: RD  
Prep Batch: 44772      QC Preparation: 2008-09-08      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	11.4	mg/L	1	12.5	<0.344	91	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	11.4	mg/L	1	12.5	<0.344	91	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52260      Date Analyzed: 2008-09-11      Analyzed By: RD  
Prep Batch: 44805      QC Preparation: 2008-09-10      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.4	mg/L	1	12.5	<1.74	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.4	mg/L	1	12.5	<1.74	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52260      Date Analyzed: 2008-09-11      Analyzed By: RD  
Prep Batch: 44805      QC Preparation: 2008-09-10      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.58	mg/L	1	2.50	<0.0889	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.54	mg/L	1	2.50	<0.0889	102	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52260      Date Analyzed: 2008-09-11      Analyzed By: RD  
Prep Batch: 44805      QC Preparation: 2008-09-10      Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	11.3	mg/L	1	12.5	<0.344	90	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.8	mg/L	1	12.5	<0.344	102	90 - 110	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52325      Date Analyzed: 2008-09-10      Analyzed By: JR  
Prep Batch: 44857      QC Preparation: 2008-09-10      Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.9	mg/L	1	12.5	<0.640	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.9	mg/L	1	12.5	<0.640	95	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52325  
Prep Batch: 44857

Date Analyzed: 2008-09-10  
QC Preparation: 2008-09-10

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.46	mg/L	1	2.50	<0.0434	98	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.46	mg/L	1	2.50	<0.0434	98	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52325  
Prep Batch: 44857

Date Analyzed: 2008-09-10  
QC Preparation: 2008-09-10

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.3	mg/L	1	12.5	<0.504	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.3	mg/L	1	12.5	<0.504	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52326  
Prep Batch: 44858

Date Analyzed: 2008-09-10  
QC Preparation: 2008-09-10

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.0	mg/L	1	12.5	<0.640	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52326  
Prep Batch: 44858

Date Analyzed: 2008-09-10  
QC Preparation: 2008-09-10

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	2.48	mg/L	1	2.50	<0.0434	99	88.6 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	2.48	mg/L	1	2.50	<0.0434	99	88.6 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 52326  
Prep Batch: 44858

Date Analyzed: 2008-09-10  
QC Preparation: 2008-09-10

Analyzed By: JR  
Prepared By: JR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.4	mg/L	1	12.5	<0.504	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Matrix Spike (MS-1) Spiked Sample: 170067

QC Batch: 51559  
Prep Batch: 44210

Date Analyzed: 2008-08-08  
QC Preparation: 2008-08-08

Analyzed By: MD  
Prepared By: MD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	14600	mg/L	500	6250	8750	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	14700	mg/L	500	6250	8750	95	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170067

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD  
Prep Batch: 44210 QC Preparation: 2008-08-08 Prepared By: MD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1220	mg/L	500	1250	<21.7	97	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	1220	mg/L	500	1250	<21.7	97	89.9 - 104	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170067

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD  
Prep Batch: 44210 QC Preparation: 2008-08-08 Prepared By: MD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	20700	mg/L	500	6250	14500	99	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	20700	mg/L	500	6250	14500	99	82.7 - 108	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170170

QC Batch: 51560 Date Analyzed: 2008-08-19 Analyzed By: JR  
Prep Batch: 44211 QC Preparation: 2008-08-08 Prepared By: MD



Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	125	mg/L	50	125	3.05	98	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	125	mg/L	50	125	3.05	98	89.9 - 104	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170168

QC Batch: 51593 Date Analyzed: 2008-08-13 Analyzed By: JR  
Prep Batch: 44242 QC Preparation: 2008-08-13 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7710	mg/L	500	6250	1960	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7720	mg/L	500	6250	1960	92	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170168

QC Batch: 51593 Date Analyzed: 2008-08-13 Analyzed By: JR  
Prep Batch: 44242 QC Preparation: 2008-08-13 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	13300	mg/L	500	6250	7540	92	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	13300	mg/L	500	6250	7540	92	82.7 - 108	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170455

QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44311 QC Preparation: 2008-08-14 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7980	mg/L	500	6250	1770	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7870	mg/L	500	6250	1770	98	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170455

QC Batch: 51679	Date Analyzed: 2008-08-14	Analyzed By: JR
Prep Batch: 44311	QC Preparation: 2008-08-14	Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1210	mg/L	500	1250	<21.7	97	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	1230	mg/L	500	1250	<21.7	98	89.9 - 104	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170455

QC Batch: 51679	Date Analyzed: 2008-08-14	Analyzed By: JR
Prep Batch: 44311	QC Preparation: 2008-08-14	Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	13000	mg/L	500	6250	6920	97	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	13000	mg/L	500	6250	6920	97	82.7 - 108	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170457

QC Batch: 51680	Date Analyzed: 2008-08-14	Analyzed By: JR
Prep Batch: 44312	QC Preparation: 2008-08-14	Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7200	mg/L	500	6250	1130	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7200	mg/L	500	6250	1130	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170457

QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44312 QC Preparation: 2008-08-14 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1230	mg/L	500	1250	<21.7	98	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	1230	mg/L	500	1250	<21.7	98	89.9 - 104	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170457

QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR  
Prep Batch: 44312 QC Preparation: 2008-08-14 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12300	mg/L	500	6250	5920	102	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12000	mg/L	500	6250	5920	97	82.7 - 108	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170986

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 QC Preparation: 2008-08-18 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7560	mg/L	500	6250	1710	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7540	mg/L	500	6250	1710	93	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170986

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 QC Preparation: 2008-08-18 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1200	mg/L	500	1250	<21.7	96	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	1190	mg/L	500	1250	<21.7	95	89.9 - 104	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 170986

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR  
Prep Batch: 44314 QC Preparation: 2008-08-18 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12300	mg/L	500	6250	6370	95	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12200	mg/L	500	6250	6370	93	82.7 - 108	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171111

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR  
Prep Batch: 44424 QC Preparation: 2008-08-20 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7680	mg/L	500	6250	1810	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7670	mg/L	500	6250	1810	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171111

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR  
Prep Batch: 44424 QC Preparation: 2008-08-20 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1230	mg/L	500	1250	<21.7	98	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	1230	mg/L	500	1250	<21.7	98	89.9 - 104	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171111

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR  
Prep Batch: 44424 QC Preparation: 2008-08-20 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	11600	mg/L	500	6250	5770	93	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	11600	mg/L	500	6250	5770	93	82.7 - 108	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171300

QC Batch: 51799 Date Analyzed: 2008-08-20 Analyzed By: JR  
Prep Batch: 44425 QC Preparation: 2008-08-20 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7120	mg/L	500	6250	1200	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7110	mg/L	500	6250	1200	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171300

QC Batch: 51799 Date Analyzed: 2008-08-20 Analyzed By: JR  
Prep Batch: 44425 QC Preparation: 2008-08-20 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	13000	mg/L	500	6250	7240	92	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	13100	mg/L	500	6250	7240	94	82.7 - 108	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171731

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 QC Preparation: 2008-08-22 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11800	mg/L	500	6250	5910	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11800	mg/L	500	6250	5910	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171731

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 QC Preparation: 2008-08-22 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1190	mg/L	500	1250	<21.7	95	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	1200	mg/L	500	1250	<21.7	96	89.9 - 104	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171731

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44426 QC Preparation: 2008-08-22 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	18800	mg/L	500	6250	13100	91	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	18800	mg/L	500	6250	13100	91	82.7 - 108	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171735

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44427 QC Preparation: 2008-08-22 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8590	mg/L	500	6250	2750	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	8590	mg/L	500	6250	2750	93	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171735

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR  
Prep Batch: 44427 QC Preparation: 2008-08-22 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1220	mg/L	500	1250	<21.7	97	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	1220	mg/L	500	1250	<21.7	97	89.9 - 104	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 171735

QC Batch: 51801	Date Analyzed: 2008-08-22	Analyzed By: JR
Prep Batch: 44427	QC Preparation: 2008-08-22	Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12400	mg/L	500	6250	6560	93	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12500	mg/L	500	6250	6560	95	82.7 - 108	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 172908

QC Batch: 52218	Date Analyzed: 2008-09-10	Analyzed By: RD
Prep Batch: 44772	QC Preparation: 2008-09-08	Prepared By: RD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8340	mg/L	500	6250	3042.34	85	62.2 - 146

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	8160	mg/L	500	6250	3042.34	82	62.2 - 146	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 172908

QC Batch: 52218	Date Analyzed: 2008-09-10	Analyzed By: RD
Prep Batch: 44772	QC Preparation: 2008-09-08	Prepared By: RD



Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	805	mg/L	500	1250	<44.4	64	63.5 - 127

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	833	mg/L	500	1250	<44.4	67	63.5 - 127	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 172908

QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD  
Prep Batch: 44772 QC Preparation: 2008-09-08 Prepared By: RD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	<sup>1</sup> 16100	mg/L	500	6250	12833.7	52	61.5 - 151

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	<sup>2</sup> 16000	mg/L	500	6250	12833.7	51	61.5 - 151	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 172795

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD  
Prep Batch: 44805 QC Preparation: 2008-09-10 Prepared By: RD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	13800	mg/L	1000	12500	2474.87	91	62.2 - 146

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	13800	mg/L	1000	12500	2474.87	91	62.2 - 146	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>1</sup> Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>2</sup> Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

**Matrix Spike (MS-1)** Spiked Sample: 172795

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD  
Prep Batch: 44805 QC Preparation: 2008-09-10 Prepared By: RD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	1800	mg/L	1000	2500	<88.9	72	63.5 - 127

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	<sup>3</sup> 1560	mg/L	1000	2500	<88.9	62	63.5 - 127	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 172795

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD  
Prep Batch: 44805 QC Preparation: 2008-09-10 Prepared By: RD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	23100	mg/L	1000	12500	10996.4	97	61.5 - 151

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	22000	mg/L	1000	12500	10996.4	88	61.5 - 151	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 173043

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44857 QC Preparation: 2008-09-10 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	716	mg/L	50	625	109	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

*continued . . .*

<sup>3</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

*matrix spikes continued ...*

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	716	mg/L	50	625	109	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 173043

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44857 QC Preparation: 2008-09-10 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	<sup>4</sup> 182	mg/L	50	125	<2.17	145	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	<sup>5</sup> 141	mg/L	50	125	<2.17	112	89.9 - 104	25	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 173043

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44857 QC Preparation: 2008-09-10 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	2000	mg/L	50	625	1360	102	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	2000	mg/L	50	625	1360	102	82.7 - 108	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>4</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>5</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

**Matrix Spike (MS-1)** Spiked Sample: 173041

QC Batch: 52326 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44858 QC Preparation: 2008-09-10 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	60.3	mg/L	5	62.5	<3.20	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	60.2	mg/L	5	62.5	<3.20	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 173041

QC Batch: 52326 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44858 QC Preparation: 2008-09-10 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	12.4	mg/L	5	12.5	<0.217	99	89.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	12.4	mg/L	5	12.5	<0.217	99	89.9 - 104	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 173041

QC Batch: 52326 Date Analyzed: 2008-09-10 Analyzed By: JR  
Prep Batch: 44858 QC Preparation: 2008-09-10 Prepared By: JR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	62.7	mg/L	5	62.5	<2.52	97	82.7 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	62.6	mg/L	5	62.5	<2.52	97	82.7 - 108	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Standard (ICV-1)**

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.7	94	90 - 110	2008-08-08

**Standard (ICV-1)**

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.39	96	90 - 110	2008-08-08

**Standard (ICV-1)**

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-08-08

**Standard (CCV-1)**

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-08-08

**Standard (CCV-1)**

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.41	96	90 - 110	2008-08-08

**Standard (CCV-1)**

QC Batch: 51559 Date Analyzed: 2008-08-08 Analyzed By: MD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-08-08

**Standard (ICV-1)**

QC Batch: 51560 Date Analyzed: 2008-08-19 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.41	96	90 - 110	2008-08-19

**Standard (CCV-1)**

QC Batch: 51560 Date Analyzed: 2008-08-19 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.44	98	90 - 110	2008-08-19

**Standard (ICV-1)**

QC Batch: 51593 Date Analyzed: 2008-08-13 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2008-08-13

**Standard (ICV-1)**

QC Batch: 51593 Date Analyzed: 2008-08-13 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.5	92	90 - 110	2008-08-13

**Standard (CCV-1)**

QC Batch: 51593 Date Analyzed: 2008-08-13 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-08-13

**Standard (CCV-1)**

QC Batch: 51593 Date Analyzed: 2008-08-13 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.7	94	90 - 110	2008-08-13

**Standard (ICV-1)**

QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.1	97	90 - 110	2008-08-14

**Standard (ICV-1)**

QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.45	98	90 - 110	2008-08-14

**Standard (ICV-1)**

QC Batch: 51679 Date Analyzed: 2008-08-14 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.0	96	90 - 110	2008-08-14

**Standard (CCV-1)**

QC Batch: 51679                      Date Analyzed: 2008-08-14                      Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.2	98	90 - 110	2008-08-14

**Standard (CCV-1)**

QC Batch: 51679                      Date Analyzed: 2008-08-14                      Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.47	99	90 - 110	2008-08-14

**Standard (CCV-1)**

QC Batch: 51679                      Date Analyzed: 2008-08-14                      Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.0	96	90 - 110	2008-08-14

**Standard (ICV-1)**

QC Batch: 51680                      Date Analyzed: 2008-08-14                      Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.2	98	90 - 110	2008-08-14

**Standard (ICV-1)**

QC Batch: 51680                      Date Analyzed: 2008-08-14                      Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.47	99	90 - 110	2008-08-14



**Standard (ICV-1)**

QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.0	96	90 - 110	2008-08-14

**Standard (CCV-1)**

QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.1	97	90 - 110	2008-08-14

**Standard (CCV-1)**

QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.47	99	90 - 110	2008-08-14

**Standard (CCV-1)**

QC Batch: 51680 Date Analyzed: 2008-08-14 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.0	96	90 - 110	2008-08-14

**Standard (ICV-1)**

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.7	94	90 - 110	2008-08-18

**Standard (ICV-1)**

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.37	95	90 - 110	2008-08-18

**Standard (ICV-1)**

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-08-18

**Standard (CCV-1)**

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-08-18

**Standard (CCV-1)**

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.40	96	90 - 110	2008-08-18

**Standard (CCV-1)**

QC Batch: 51682 Date Analyzed: 2008-08-18 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.7	94	90 - 110	2008-08-18

**Standard (ICV-1)**

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2008-08-20

**Standard (ICV-1)**

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.43	97	90 - 110	2008-08-20

**Standard (ICV-1)**

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.7	94	90 - 110	2008-08-20

**Standard (CCV-1)**

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2008-08-20

**Standard (CCV-1)**

QC Batch: 51798 Date Analyzed: 2008-08-20 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.45	98	90 - 110	2008-08-20

**Standard (CCV-1)**

QC Batch: 51798

Date Analyzed: 2008-08-20

Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.7	94	90 - 110	2008-08-20

**Standard (ICV-1)**

QC Batch: 51799

Date Analyzed: 2008-08-20

Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2008-08-20

**Standard (ICV-1)**

QC Batch: 51799

Date Analyzed: 2008-08-20

Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.7	94	90 - 110	2008-08-20

**Standard (CCV-1)**

QC Batch: 51799

Date Analyzed: 2008-08-20

Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-08-20

**Standard (CCV-1)**

QC Batch: 51799

Date Analyzed: 2008-08-20

Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-08-20

**Standard (ICV-1)**

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.5	92	90 - 110	2008-08-22

**Standard (ICV-1)**

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.37	95	90 - 110	2008-08-22

**Standard (ICV-1)**

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.3	90	90 - 110	2008-08-22

**Standard (CCV-1)**

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.7	94	90 - 110	2008-08-22

**Standard (CCV-1)**

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.42	97	90 - 110	2008-08-22

**Standard (CCV-1)**

QC Batch: 51800 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-08-22

**Standard (ICV-1)**

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.7	94	90 - 110	2008-08-22

**Standard (ICV-1)**

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.42	97	90 - 110	2008-08-22

**Standard (ICV-1)**

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-08-22

**Standard (CCV-1)**

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2008-08-22

**Standard (CCV-1)**

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.46	98	90 - 110	2008-08-22

**Standard (CCV-1)**

QC Batch: 51801 Date Analyzed: 2008-08-22 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.7	94	90 - 110	2008-08-22

**Standard (ICV-1)**

QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.4	99	90 - 110	2008-09-09

**Standard (ICV-1)**

QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.61	104	90 - 110	2008-09-09

**Standard (ICV-1)**

QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.5	92	90 - 110	2008-09-09

**Standard (CCV-1)**

QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.2	98	90 - 110	2008-09-09

**Standard (CCV-1)**

QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.49	100	90 - 110	2008-09-09

**Standard (CCV-1)**

QC Batch: 52175 Date Analyzed: 2008-09-09 Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.3	90	90 - 110	2008-09-09

**Standard (ICV-1)**

QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.4	99	90 - 110	2008-09-10

**Standard (ICV-1)**

QC Batch: 52218 Date Analyzed: 2008-09-10 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.36	94	90 - 110	2008-09-10



**Standard (ICV-1)**

QC Batch: 52218                      Date Analyzed: 2008-09-10                      Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.5	92	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52218                      Date Analyzed: 2008-09-10                      Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.1	97	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52218                      Date Analyzed: 2008-09-10                      Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.36	94	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52218                      Date Analyzed: 2008-09-10                      Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.4	91	90 - 110	2008-09-10

**Standard (ICV-1)**

QC Batch: 52260                      Date Analyzed: 2008-09-11                      Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.4	99	90 - 110	2008-09-11

**Standard (ICV-1)**

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.33	93	90 - 110	2008-09-11

**Standard (ICV-1)**

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.5	92	90 - 110	2008-09-11

**Standard (CCV-1)**

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.5	100	90 - 110	2008-09-11

**Standard (CCV-1)**

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.45	98	90 - 110	2008-09-11

**Standard (CCV-1)**

QC Batch: 52260 Date Analyzed: 2008-09-11 Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.7	102	90 - 110	2008-09-11

**Standard (ICV-1)**

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.5	92	90 - 110	2008-09-10

**Standard (ICV-1)**

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.38	95	90 - 110	2008-09-10

**Standard (ICV-1)**

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.4	91	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52325 Date Analyzed: 2008-09-10 Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.45	98	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52325                      Date Analyzed: 2008-09-10                      Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-09-10

**Standard (ICV-1)**

QC Batch: 52326                      Date Analyzed: 2008-09-10                      Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-09-10

**Standard (ICV-1)**

QC Batch: 52326                      Date Analyzed: 2008-09-10                      Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.45	98	90 - 110	2008-09-10

**Standard (ICV-1)**

QC Batch: 52326                      Date Analyzed: 2008-09-10                      Analyzed By: JR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.6	93	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52326                      Date Analyzed: 2008-09-10                      Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2008-09-10

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**Standard (CCV-1)**

QC Batch: 52326

Date Analyzed: 2008-09-10

Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.46	98	90 - 110	2008-09-10

**Standard (CCV-1)**

QC Batch: 52326

Date Analyzed: 2008-09-10

Analyzed By: JR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	11.7	94	90 - 110	2008-09-10